

**Study Information For
Product Registration - Section 3
100-902**

MRID	Citation	Receipt Date
43943300	Merck & Co., Inc. (1996) Submission of Exposure/Risk, Toxicology, Hazard to Non-Target Organisms, and Environmental Fate Data in Support of the Applications for Registration of Proclaim 2% EC and 5% SG. Transmittal of 4 Studies.	27-Feb-1996
43943301	Lunchik, C. (1995) Assessment of Application and Postapplication Exposure and Risk to Proclaim 0.16 EC and Proclaim 5 SG on Cole Crops and Leafy Vegetables: Lab Project Number: 618-244-APPEXRK. Unpublished study prepared by Jellinek, Schwartz & Connolly, Inc. 54 p.	27-Feb-1996
43943302	O'Grodnick, J. (1995) Emamectin Benzoate: Environmental Fate Summary: Lab Project Number: 618-244-FATESUM. Unpublished study prepared by Merck Research Labs. 16 p.	27-Feb-1996
43943303	Neal, B. (1995) Mammalian Toxicology Summary for Emamectin Benzoate MK-244: Lab Project Number: 618-244-TOXSUM3. Unpublished study prepared by Jellinek, Schwartz & Connolly, Inc. 16 p.	27-Feb-1996
43943304	O'Grodnick, J. (1995) Ecological Risk Characterization and Assessment for Emamectin Benzoate MK-244: Lab Project Number: 618-244-ECORISK. Unpublished study prepared by Merck Research Labs. 23 p.	27-Feb-1996
44007900	Merck & Co., Inc. (1996) Submission of Product Chemistry, Toxicity, Hazard to Wildlife and Aquatic Organisms, and Environmental Fate and Residues Data in Support of the Application for Registration of PROCLAIM 0.16 EC, PROCLAIM 5 SG, and Emamectin Benzoate Technical Insecticides and Tolerance Petition for Emamectin Benzoate and Metabolites in/on Cole Crops, Celery, and Head Lettuce. Transmittal of 15 Studies.	07-May-1996
44007901	Drottar, K.; Swigert, J. (1996) (Hydrogen 3)-MK-0244 Polar Photodegradates: A 48-Hour Static Acute Toxicity Test with the Cladoceran (Daphnia magna): Final Report: Lab Project Number: 105A-127: 4462. Unpublished study prepared by Wildlife International Ltd. 33 p.	07-May-1996
44007902	Bagdon, W. (1996) MK-0244 E.C. (0.16) lbs/gal: Twenty-Two-Day Dermal Toxicity Study in Rabbits: Lab Project Number: 95-2656. Unpublished study prepared by Merck Research Labs. 155 p.	07-May-1996
44007903	Dunbar, D. (1996) Dissipation of Dislodgeable MK-0244 0.16 EC Residues from Foliage of Celery when Applied with Non-ionic Surfactants by Ground Equipment: Lab Project Number: 618-244-93859: 001-93-5010R: 93859. Unpublished study prepared by Merck Research Labs; Plant Sciences, Inc.; and Agvise Labs. 943 p.	07-May-1996
	Wehner, T. (1996) Method Validation: HPLC-Fluorescence Method to Determine the Foliar Dislodgeable Total Toxic Residues of MK-0244 and Its	

44007904	Metabolites in Leaf Disk Extracts: Analytical Research Method 244-93-2: Lab Project Number: 618-244-93902: 93902: 3902. Unpublished study prepared by Merck Research Labs. 939 p.	07-May-1996
44007905	Atkins, R. (1995) Determination of the Degradation Rate of (hydrogen 3) MAB1a in Sandy Loam Soil Under Aerobic Conditions: Lab Project Number: 618-244-94169: 94169: 900. Unpublished study prepared by PTRL East, Inc. 67 p.	07-May-1996
44007906	Crouch, L. (1996) Assay and Characterization of Polar Photodegradates of MK244 and (carbon 14)-MK244: Lab Project Number: 93692 (PMES TCR-1). Unpublished study prepared by Merck Research Labs; Galbraith Labs, Inc.; and Ricerca, Inc. 128 p.	07-May-1996
44007907	Wrzesinski, C. (1996) Comparison, Characterization, and/or Identification of Polar MK-0244 Plant and Thin Film Photolysis Residues: Lab Project Number: PLM9: 94404 (PMES PLM-9): PMES/DMII/MRL. Unpublished study prepared by Merck Research Labs. 406 p.	07-May-1996
44007908	Pindar, J. (1995) Method Validation of 0.16 lb/gal Formulation MK-0244: Lab Project Number: 94005: 4005: 618-244-94005. Unpublished study prepared by Merck Research Labs. 50 p.	07-May-1996
44007909	Pindar, J. (1995) Method Validation of MK-0244 Technical Active Ingredient: Lab Project Number: 618-244-4001: 94001: 4001. Unpublished study prepared by Merck Research Labs. 124 p.	07-May-1996
44007910	Beavers, J.; Frey, L.; Mitchell, L.; et al. (1996) MK-0244: A Reproduction Study with the Mallard: Amended Report: Lab Project Number: 105-154: 94389: 4389. Unpublished study prepared by Wildlife International Ltd. 252 p.	07-May-1996
44007911	Beavers, J.; Frey, L.; Mitchell, L.; et al. (1996) MK-0244: A Reproduction Study with the Northern Bobwhite: Amended Report: Lab Project Number: 105-153: 94357: 4357. Unpublished study prepared by Wildlife International Ltd. 243 p.	07-May-1996
44007912	Conner, B.; Martin, K.; Swigert, J. (1995) (Hydrogen 3)MK-244: A 96-Hour Flow-Through Acute Toxicity Test with the Saltwater Mysid (<i>Mysidopsis bahia</i>): Amended Final Report: Lab Project Number: 105A-109C: 93326: 3326. Unpublished study prepared by Wildlife International Ltd. 57 p.	07-May-1996
44007913	Zelinka, E.; Martin, K.; Swigert, J. (1995) MK-244: A 96-Hour Shell Deposition Test with the Eastern Oyster (<i>Crassostrea virginica</i>): Amended Final Report: Lab Project Number: 105A-107: 93325: 3325. Unpublished study prepared by Wildlife International Ltd. 47 p.	07-May-1996
44007914	Martin, K.; Swigert, J. (1995) MK-244: A 96-Hour Flow-Through Acute Toxicity Test with the Sheepshead Minnow (<i>Cyprinodon variegatus</i>): Amended Final Report: Lab Project Number: 105A-108: 93327: 3327. Unpublished study prepared by Wildlife International Ltd. 50 p.	07-May-1996
44007915	Lankas, G. (1994) L-656,748: Acute Oral Toxicity Study in Rats: Amended Report: Lab Project Number: 88-043-0. Unpublished study prepared by Merck	07-May-1996

	Institute for Therapeutic Research. 29 p.	
44010000	Merck & Co., Inc. (1996) Submission of Environmental Fate Data in Support of Registration of PROCLAIM 0.16 EC Insecticide and PROCLAIM 5 SG Insecticide and Petition for Tolerances of Emamectin Benzoate (MK-0244) on Cole Crops and Leafy Vegetables. Transmittal of 1 Study.	13-May-1996
44010001	O'Grodnick, J. (1995) Response to the EFGWB Environmental Fate Review for Emamectin Benzoate Regarding Soil Photolysis and Aerobic Soil Metabolism: Lab Project Number: 618-244-R/EFATE. Unpublished study prepared by Merck Research Laboratories. 9 p.	13-May-1996
44030600	Merck Research Laboratories (1996) Submission of Metabolism and Residue Data in Support of the Applications for Registration of Proclaim 0.16 EC Insecticide, Proclaim 5 SG Insecticide, and Emamectin Benzoate Technical and Petition for Tolerances for Emamectin Benzoate in/on Cole Crops, Celery, and Head Lettuce. Transmittal of 2 Studies.	07-May-1996
44030601	Powles, P.; Thornley, K. (1995) (Hydrogen 3)-MAB1a: Metabolism, Pharmacokinetic Profile, Excretion, Tissue Distribution, and Biliary Elimination in the Rat: Final Report: Lab Project Number: 453/6-1011: 453/6. Unpublished study prepared by Hazleton Europe. 1306 p.	07-May-1996
44030602	Wehner, T.; Dunbar, D. (1996) Determination of the Magnitude of Residues of MK-244 and Its Metabolites in/on the Raw Agricultural Commodity Groups, Leafy Vegetables and Cole Crops, from MK-244 5 SG Applied with a Non-Ionic Surfactant by Ground Equipment: Lab Project Number: 618-244-94405: 94405: 4405. Unpublished study prepared by Merck & Co., Inc. 3359 p.	07-May-1996
44257400	Merck & Co., Inc. (1997) Submission of Exposure/Risk Data in Support of the Applications for Registration for Emamectin Benzoate Technical, Proclaim 0.16 EC and Proclaim 5% SG Insecticide and Tolerance Petition for Emamectin Benzoate in/on Certain Cole Crops and Leafy Vegetables. Transmittal of 1 Study.	18-Apr-1997
44257401	Kidwell, J.; Petersen, B. (1997) Dietary Exposure and Risk Assessment for Emaamectin (sic) Benzoate on Broccoli, Cabbage, Cauliflower, Brussels Sprouts, Celery, and Head Lettuce: Lab Project Number: 618-244-FQPA1. Unpublished study prepared by Novigen Sciences, Inc. 41 p.	18-Apr-1997
44265700	Merck & Co., Inc. (1997) Submission of Toxicity, Residue, Risk Assessment and Exposure Data in Support of the Petition for Tolerance for Emamectin Benzoate on Cole Crops and Leafy Vegetables and the Applications for Registration of Emamectin Benzoate Technical, Proclaim 0.16 EC, and Proclaim 5% SG Insecticides. Transmittal of 1 Study.	18-Apr-1997
44265701	Merck Research Labs. (1997) FQPA Supplemental Information Document: Petition for Permanent Tolerance for Residues of Emamectin Benzoate in or on Certain Cole Crops and Certain Leafy Vegetables. Unpublished study. 65 p.	18-Apr-1997
44585000	Novartis Crop Protection, Inc. (1998) Submission of Toxicity, Exposure and Risk Assessment Data in Support of the Application for Registration of Emamectin Benzoate Technical, Proclaim 0.16 EC and Proclaim 5 SG	19-Jun-1998

	Insecticide Petition for Tolerance of Emamectin Benzoate. Transmittal of 1 Study.	
44585001	Stevens, J. (1998) Emamectin Benzoate: P-Glycoprotein Deficiency in Polymorphic CF-1 Mice and Neonatal Rats and its Relevance to Human Risk Assessment: Lab Project Number: 524-98. Unpublished study prepared by Novartis Crop Protection, Inc. 651 p.	19-Jun-1998
44596300	Novartis Crop Protection, Inc. (1998) Submission of Residue Data in Support of the Application for Registration of Proclaim 0.16 EC Insecticide, Proclaim 5 SG Insecticide and Emamectin Benzoate Technical and the Petition for Tolerance of Emamectin Benzoate in/on Cole Crops, Celery and Head Lettuce. Transmittal of 1 Study.	07-Jul-1998
44596301	James, J.; Pruitt, W.; Ediger, K. (1998) Validation of Analytical Method AG-684 for the Confirmation of Emamectin Benzoate (MK-0244) and its Isomer, 8,9-Z, in or on Representative Samples of Crop Group 4: Leafy Vegetables and Crop Group 5: Brassica (Cole) Leafy Vegetables by LC/MS: Lab Project Number: 98-0012: 264-98: 684. Unpublished study prepared by EN-CAS Analytical Labs. 87 p. {OPPTS 860.1340}	07-Jul-1998
44795000	Novartis Crop Protection, Inc. (1999) Submission of Product Chemistry Data in Support of the Petition for Tolerance of Emamectin Benzoate in/on Fruiting Vegetables and Cottonseed and the Applications for Registration of Emamectin Benzoate Technical, Proclaim 0.16 EC Insecticide and Proclaim 5 SG Insecticide. Transmittal of 1 Study.	18-Mar-1999
44795001	Vincent, T. (1999) Emamectin: Determination of the Magnitude of Residues of MK-0244 and its Metabolites in/on the Raw Agricultural Commodities Cottonseed and Gin Trash, from MK-244 Applied with Non-Ionic Surfactant by Ground Equipment: Final Report: Lab Project Number: ABR-98062: 94636: 446-97. Unpublished study prepared by Novartis Crop Protection, Inc. 262 p. {OPPTS 860.1500}	18-Mar-1999
44883700	Novartis Crop Protection, Inc. (1999) Submission of Product Chemistry and Residue Chemistry Data in Support of the Petition for Tolerances of Emamectin Benzoate in/on Fruiting Vegetables, Leafy Brassica Vegetables, Cotton, and Leafy Vegetables, and the Registration of Emamectin Benzoate, Proclaim, and Denim. Transmittal of 16 Studies.	22-Jul-1999
44883701	Phelps, L. (1999) Emamectin Benzoate Technical Product Chemistry Group A Data Requirements: Lab Project Number: PC-99-016. Unpublished study prepared by Novartis Crop Protection, Inc. 14 p. {OPPTS 830.1620}	22-Jul-1999
44883702	Phelps, L. (1999) Emamectin Benzoate Technical (Addendum to MRID #42794202) Product Chemistry Group B Data Requirements: Lab Project Number: 886-99: ASR-825: ASGSR-99-182. Unpublished study prepared by Novartis Crop Protection, Inc. 15 p. {OPPTS 830.7000}	22-Jul-1999
44883703	Phelps, L. (1999) Emamectin Benzoate Technical (Addendum to MRID #42794202) Product Chemistry Group B Data Requirements: Lab Project Number: 163-98: ASR-658: ASGSR-98-265. Unpublished study prepared by Novartis Crop Protection, Inc. 42 p. {OPPTS 830.7570}	22-Jul-1999

44883704	Phelps, L. (1999) Emamectin Benzoate Technical (Addendum to MRID #42794202) Product Chemistry Group B Data Requirements: Lab Project Number: 162-98: ASR-684: ASGSR-98-333. Unpublished study prepared by Novartis Crop Protection, Inc. 53 p. {OPPTS 830.7840}	22-Jul-1999
44883705	Phelps, L. (1999) Emamectin Benzoate Technical (Addendum to MRID #42794202) Product Chemistry Group B Data Requirements: Lab Project Number: PC-99-017: ASGSR-99-133. Unpublished study prepared by Novartis Crop Protection, Inc. 6 p.	22-Jul-1999
44883706	Cobin, J.; Campbell, D. (1999) CGA-293343 and Emamectin--Magnitude of the Residue in or on Tobacco: Final Report: Lab Project Number: 133-98: OS-IR-606-98: RTR-OS-IR-606-98//. Unpublished study prepared by Novartis Crop Protection, Inc. 184 p. {OPPTS 860.100, 860.1500}	22-Jul-1999
44883707	Ediger, K. (1999) Emamectin--Magnitude of the Residues in or on Representative Commodities of Crop Group 4: Leafy Vegetables: Final Report: Lab Project Number: 135-98: OW-IR-510-98: OW-IR-533-98. Unpublished study prepared by Novartis Crop Protection, Inc. 132 p. {OPPTS 860.1000, 860.1500}	22-Jul-1999
44883708	Ediger, K. (1999) Emamectin--Magnitude of the Residues in or on Representative Commodities of Crop Group 5: Brassica (Cole) Leafy Vegetables: Final Report: Lab Project Number: OS-IR-308-98: 136-98: 347004. Unpublished study prepared by Novartis Crop Protection, Inc. 201 p. {OPPTS 860.1000, 860.1500}	22-Jul-1999
44883709	Ediger, K. (1999) Emamectin--Magnitude of the Residues in or on Representative Commodities of Crop Group 8: Fruity Vegetables: Final Report: Lab Project Number: 137-98: 347004: OW-IR-430-98. Unpublished study prepared by Novartis Crop Protection, Inc. 73 p. {OPPTS 860.1000, 860.1500}	22-Jul-1999
44883710	Mushtaq, M. (1995) The Elimination, Tissue Distribution and Metabolism of (3-hydrogen)4-Deoxy-4-Epimethylaminoavermectin B1A (MAB1a) Benzoate and ((3-hydrogen)/(14-carbon))MAB1a Benzoate in Lactating Goats: Final Report: Lab Project Number: ARM-9: 522-94: 618-MK-0244-ARM-9. Unpublished study prepared by Merck Research Laboratories, Analytical Development Corp., Metabolic Lab. 528 p. {OPPTS 860.1300}	22-Jul-1999
44883711	Crouch, L. (1997) The Elimination, Tissue Distribution and Metabolism of ((3-hydrogen)/(14-carbon))-Deoxy-4-Epimethylamino Avermectin B1a (MAB1a) Benzoate in Laying Chickens: Final Report: Lab Project Number: ABR-97116: 94706: 477-96. Unpublished study prepared by Merck Research Laboratories. 323 p. {OPPTS 860.1300}	22-Jul-1999
44883712	Wehner, T.; Morneweck, L. (1997) Method Validation of the HPLC-Fluorescence Method to Determine Residues of MK-0244 and its 8,9-Z Isomer in Bovine Tissues, Milk and Plasma: Final Report: Lab Project Number: 103-99: 0618-244-94454: 244-95-1. Unpublished study prepared by Merck Research Laboratories. 644 p. {OPPTS 860.1340}	22-Jul-1999
	Kvaternick, V. (1997) Independent Laboratory Validation for the	

44883713	Determination of Emamectin Benzoate (MK-0244) Residues in Bovine Liver Tissue and Milk: Final Report: Lab Project Number: 1033-99: 94731: 0397. Unpublished study prepared by Analytical Development Corporation. 172 p. {OPPTS 860.1340}	22-Jul-1999
44883714	Wehner, T.; Morneweck, L. (1997) A Study in Lactating Cows to Determine Tissue, Milk and Plasma Residues in Animals Exposed to Twenty-Eight Days of Oral Ingestion of MK-0244 (Emamectin Benzoate): Final Report: Lab Project Number: 1032-99: 94401: ASR 14601. Unpublished study prepared by Merck Research Laboratories. 1878 p. {OPPTS 860.1480}	22-Jul-1999
44883715	Dunbar, D.; Wehner, T. (1996) Determination of the Magnitude of Residues of MK-244 and its Metabolites in/on The Raw Agricultural Commodity Group, Fruiting Vegetables, From MK-244 5 SG Applied with a Non-Ionic Surfactant By Ground Equipment: Final Report: Lab Project Number: 618-244-94461: 4461: 1013-99. Unpublished study prepared by Merck & Co., Inc. 64 p. {OPPTS 860.1500}	22-Jul-1999
44883716	Eudy, L.; Cobin, J.; Campbell, D. (1999) CGA-293343 + Emamectin-- Magnitude of the Residues in or on Cotton: Final Report: Lab Project Number: 132-98: 02-IR-022-98: 03-IR-001-98. Unpublished study prepared by Novartis Crop Protection, Inc. 416 p. {OPPTS 860.1500, 860.1520}	22-Jul-1999
44890400	Novartis Crop Protection, Inc. (1999) Submission of Reduced-Risk Rationale Data in Support of the Petition for Tolerances of Emamectin Benzoate in/on Fruiting Vegetables, Leafy Brassica Vegetables, Cotton, and Leafy Vegetables, and the Applications for Registration of Emamectin Benzoate, Proclaim, and Denim. Transmittal of 1 Study.	09-Aug-1999
44890401	Bray, L.; Dunbar, D.; Koenig, J.; et al. (1999) Reduced-Risk Pesticide Rationale for Proclaim and Denim: Lab Project Number: 1098-99. Unpublished study prepared by Novartis Crop Protection, Inc. 174 p.	09-Aug-1999
45209800	Novartis Crop Protection (2000) Submission of Residue Data in Support of the Petition for Tolerance of Emamectin Benzoate in/on Leafy Vegetable and the Registration of Emamectin Benzoate Technical and Proclaim. Transmittal of 3 Studies.	15-Sep-2000
45209801	Kvaternick, V. (1997) Validation of MK-0244 Total Toxic Residues in/on Leafy Brassica (Mustard Greens and Bok Choy): Lab Project Number: 1643: 502-96. Unpublished study prepared by Analytical Development Corporation. 191 p. {OPPTS 860.1340}	15-Sep-2000
45209802	Cobin, J. (1998) Determination of the Magnitude of Residues of MK-244 and its Metabolites in/out the Raw Agricultural Commodity Group, Leafy Brassica Greens, from MK-244 Applied with a Non-Ionic Surfactant by Ground Equipment: Lab Project Number: ABR-98042: 448-97. Unpublished study prepared by Novartis Crop Protection, Inc. 159 p. {OPPTS 860.1500}	15-Sep-2000
45209803	Vincent, T. (1998) Determination of the Magnitude of Residues of MK-0244 and its Metabolites in/on the Raw Agricultural Commodities, Leaf Lettuce and Spinach, from MK-0244 5SG Applied with a Non-Ionic Surfactant by Ground Equipment: Lab Project Number: ABR-98047: 450-97. Unpublished study	15-Sep-2000

	prepared by Novartis Crop Protection. 202 p. {OPPTS 860.1500}	
45420800	Syngenta Crop Protection, Inc. (2001) Submission of Product Chemistry Data in Support of the Registration of Emamectin Benzoate Technical. Transmittal of 1 Study.	25-May-2001
45420801	Phelps, L. (2001) Manufacturing Process Description and Supporting Data for Emamectin Benzoate Technical: Lab Project Number: PC-01-014. Unpublished study prepared by Syngenta Crop Protection, Inc. 302 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1670, 830.1700, 830.1750, 830.1800}	25-May-2001
45833000	Syngenta Crop Protection, Inc. (2003) Submission of Toxicity Data in Support of the Registration of Emamectin Benzoate Technical, Denim Insecticide, and Proclaim Insecticide. Transmittal of 1 Study.	08-Jan-2003
45833001	Blankinship, A.; Kendall, T.; Kruegar, H. (2002) Emamectin Benzoate (MK-244): A Flow-Through Life-Cycle Toxicity Test with the Saltwater Mysid (Mysidopsis bahia): Final Report: Lab Project Number: 528A-117B: 2216-01: 101801/MYS-LC/SUB528. Unpublished study prepared by Wildlife International, Ltd. 107 p. {OPPTS 850.1350}	08-Jan-2003
45899800	Syngenta Crop Protection, Inc. (2003) Submission of Residue Data in Support of the Amended Registrations of Proclaim Insecticide and Emamectin Benzoate Technical and the Petition for Tolerance of Emamectin Benzoate in or on Pome Fruit. Transmittal of 1 Study.	02-Apr-2003
45899801	Cobin, J.; Ediger, K. (2002) MK-0244--Magnitude of the Residues in or on Crop Group 11: Pome Fruit: Emamectin Benzoate: Final Report: Lab Project Number: 37-00. Unpublished study prepared by Syngenta Crop Protection, Inc. 345 p. {OPPTS 860.1000, 860.1500 and 860.1520}	02-Apr-2003
46044900	Syngenta Crop Protection, Inc. (2003) Submission of Product Chemistry Data in Support of the Amended Registration of Emamectin Benzoate Technical. Transmittal of 1 Study.	24-Jul-2003
46044901	Sparrow, K. (2002) Manufacturing Process Description and Supporting Data for Emamectin Benzoate Technical: Project Number: PC/02/075, AK/212/2, 109067. Unpublished study prepared by Syngenta Crop Protection, Inc. 113 p.	24-Jul-2003
46783700	Syngenta Crop Protection, Inc. (2006) Submission of Residue Data in Support of the Registration of Proclaim Insecticide, Emamectin Benzoate Technical and the Petition for Tolerance of Emamectin Benzoate for Use in/on Pome Fruit. Transmittal of 1 Study.	15-Mar-2006
46783701	Ediger, K.; Cobin, J. (2006) Emamectin Benzoate (MK-0244) - Magnitude of the Residues in or on Crop Group 11: Pome Fruit: Final Report. Project Number: 37/00, 05/IR/001/00, NE/IR/802/00. Unpublished study prepared by Syngenta Crop Protection, Inc., Syngenta Crop Protection and Agricultural Chemicals Development Service. 347 p.	15-Mar-2006
Total Rows: 69		